

INCH-POUND

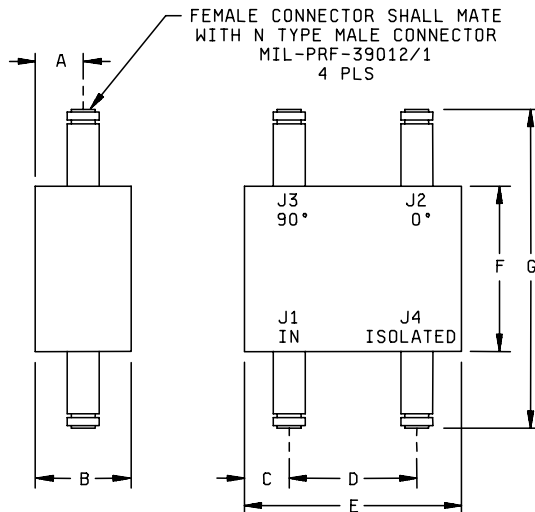
MIL-DTL-23971/7A
23 April 2002
SUPERSEDING
MIL-P-23971/7
22 February 1980

DETAIL SPECIFICATION SHEET

POWER DIVIDER, 4 PORT QUADRATURES, N CONNECTORS

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the power divider described herein shall consist of this specification sheet and MIL-DTL-23971.



	Dimensions			
	Inches		Millimeters	
	Max	Min	Max	Min
A	.380	.370	9.65	9.40
B	.76	.74	19.3	18.8
C	.355	.345	9.02	8.76
D	1.01	.99	25.7	25.1
E	1.71	1.69	43.4	42.9
F	1.31	1.29	33.3	32.8
G	2.51	2.49	63.8	63.2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Dimensions and configuration, dash number 01.

REQUIREMENTS:

Design and construction: See figure 1.

Case: O-ring seal.

Weight: 0.269 pounds (120 grams).

Ambient temperature: Operating -55° to +100°C.

Electrical performance characteristics:

Impedance: 50 ohms.

Frequency range: 7.0 to 12.4 GHz.

Average coupling: 3 dB +.2, -.0.

VSWR: 1.35:1 maximum.

Insertion loss: .1 dB maximum.

Isolation: 15 dB minimum.

Phase balance: 90° \pm 1.5°.

Amplitude balance: \pm 0.5 dB.

Power level: 100 W average, 3 kW peak.

Part number: M23971/7-01

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5985-1227-07)

Review activities:

Navy - AS, MC, OS